

Amendments to the Claims:

Claims 1-13 (Cancelled)

14. **(Currently amended)** ~~The high efficiency combustion device for liquid fuel according to Claim 12, wherein the liquid comprising:~~ A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the liquid comprises an electrically conductive solution or electrically conductive gel containing carbon graphite particles.

15. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel according to Claim 12~~ 14, wherein the high combustion efficiency device is formed to be attachable to at least ~~part one~~ one of a fuel tank of liquid fuel and a fuel passage extending from the fuel tank to a combustion device of the liquid fuel.

16. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel according to Claim 12~~ 31, wherein the high combustion efficiency device ~~can~~ is arranged to surround a fuel pipe extending from ~~the~~ a fuel tank to a combustion device of the liquid fuel.

17. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel according to Claim 14, wherein the high combustion efficiency device can~~ is arranged to surround a fuel pipe extending from ~~the~~ a fuel tank to a combustion device of the liquid fuel.

Claim 18 **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim ~~12~~ 31, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

19. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 18, wherein the far-infrared ray generating substance is hard alumite.

20. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 18, wherein the far-infrared ray generating substance is provided as an outermost layer.

21. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 14, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

22. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 21, wherein the far-infrared ray generating substance is hard alumite.

23. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 21, wherein the far-infrared ray generating substance is provided as an outermost layer.

24. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 17, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

25. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 24, wherein the far-infrared ray generating substance is hard alumite.

26. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 24, wherein the far-infrared ray generating substance is provided as an outermost layer.

27. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim ~~12~~ 31, ~~further comprising~~ adsorption attachment means attached to an inner wall surface of ~~the~~ a fuel tank.

28. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 14, ~~further comprising~~ adsorption attachment means attached to an inner wall surface of ~~the~~ a fuel tank.

29. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim ~~12~~ 31, ~~comprising wherein~~
the hollow member and the liquid constitute a device body ~~body~~; and
a float is provided which allows the device body to float in the fuel in ~~the~~ a fuel tank.

30. **(Currently amended)** The high combustion efficiency device ~~for liquid fuel~~ according to Claim 14, ~~comprising wherein~~
the hollow member and the liquid constitute a device body ~~body~~; and
a float is provided which allows the device body to float in the fuel in ~~the~~ a fuel tank.

31. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel~~
~~according to Claim 12~~, A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the high efficiency combustion device is mounted while the hollow member is grounded.

32. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel according to Claim 13,~~ A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the liquid contains electrically conductive particles; and

wherein the high efficiency combustion device is mounted while the hollow member is grounded.

33. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel~~ according to Claim 14, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

34. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel~~ according to Claim 17, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

35. **(Currently amended)** ~~The high combustion efficiency device for liquid fuel~~ according to Claim 24, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

36. **(New)** The high combustion efficiency device according to Claim 31, wherein the high combustion efficiency device is formed to be attachable to at least one of a fuel tank of liquid fuel and a fuel passage extending from the fuel tank to a combustion device of the liquid fuel.

37. **(New)** The high combustion efficiency device according to claim 31, further comprising
a permanent magnet secured to the hollow member for attaching the hollow member to an inner wall surface of a fuel tank.

38. **(New)** The high combustion efficiency device according to claim 14, further comprising
a permanent magnet secured to the hollow member for attaching the hollow member to an inner wall surface of a fuel tank.